

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

District	Number of credits in Math	Specific Courses	Year Regulations	Number of credits in Science	Specific Courses	Total number of credits for Diploma	Commonwealth Diploma	Additional Diploma's and required courses
Adair County	4	Algebra, Geometry, electives	one class per year	3	Freshman Survey	27	yes	College Preparatory Diploma 30 Credits:4 Math Algebra I, Geometry, and Algebra II - 3 Science Freshman Survey, Biology or Applied Science., Chemistry. I or Physics I.
Allen County	3	Algebra I, Geometry, Elective		3	Biology, ICP, one elective	27	yes	Pre College: 3 Math, 3 Science - Biology, ICP, Chemistry. or Physics.
Anderson County	4	Algebra I, Geometry, 2 math electives	9th grade. : Algebra I, Biology I, 10th grade. : Data/Measurements and Geometry, Physical Science. 11th grade.: Algebra II, Earth Science.	3	Integrated Science or Biology I, Chemistry. I or Environmental Science, one Science elective	26	yes	Advanced College Preparatory Certificate - 5 Math: Algebra I, Geometry, Data/Measurements, Algebra II, Pre-Calculus or Introduction to College Math 4 Science: Biology I, Physical Science or Chemistry. I, Earth Science., Physics or Chemistry. II or Anatomy or AP Biology
Ashland Independent	3	Algebra I, Geometry, one elective		3	Life Science, Physical Science., Earth/Space Science	24	yes	
Augusta Independent	3	Algebra I, Geometry, one elective		3	Integrated Science I, II, III	22	no	
Ballard County	3	Algebra I, Algebra II, Geometry, Calculus, Business & Industrial Math		3	ICP, Earth/Space, Biology, AP Biology, Chemistry., Advanced. Chemistry., Advanced- Biology, Animal Science	22	yes	
Barbourville Independent	Minimum High School graduation requirements					22	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Bardstown Independent	3	Algebra I, Geometry, one elective		3	Integrated. Science., Biology, Science elective	22	no	College Preparatory - 23 Credits : 4 Math (Algebra I, II, Geometry, Math Elective) 3 Science (Integrated. Science., Biology, Chemistry. or Physics) Advanced : 24 Credits ; 4 Math (Algebra I, II , Geometry, Pre - Calculus, AP Calculus, Advanced Topics) 4 Science ( Integrated. Science., Biology, Chemistry. or Physics and 2 AP courses)
Barren County	3	Algebra I, Geometry, one elective		3	Integrated Science., Biology I, elective	26	no	
Bath County	3	Basic Algebra or Algebra I, Geometry Or Practical Geometry and one elective		3	Integrated. Science., Biology, Introduction to Chemistry. or Integrated Science II.	26	no	
Beechwood Independent	Minimum High School graduation requirements					22	yes pre-college curriculum + 4 AP	
Bell County	3	Algebra I, Geometry, one elective		3	Chemistry. I, Physical Science., Biology, Earth/Space or Physics	22	yes same plus 4 AP Courses	Pre-College 22 Credits : 3 Math- same, 3 Science- same
Bellevue Independent	3	Algebra I, Geometry, Algebra II or Integrated Math I or Integrated Math II or Integrated Math III		3	Physics., Science, Biology, Advanced Biology, Chemistry I Chemistry II, AP Physics	28	yes	3 Math, 3 Science Algebra I Algebra II and or Geometry and Pre-Calculus - Biology, Chemistry. I or Physics or Chemistry II or Physical Science at least 1 AP Science or AP Math.
Berea Independent	4	Algebra I, Geometry, Electives		3	ICP, Biology I, Electives	22	no	
Boone County	3	Algebra I, Geometry, one elective		3	Life Science, Physical Science, Earth and Space Science.	22	no	
Bourbon County	3	Algebra I, Geometry, Algebra II or Integrated. Math		3	Integrated. Science., Life Science. or Advanced Biology, one elective	25	yes	Pre-College- minimum of 4 AP courses and 3 AP exams: 3 Math and 3 Science including AP Calculus or AP Biology
Bowling Green Independent	3	Algebra I, Geometry, Math Elective		3	Integrated. Science I, II, III	22	no	
Boyd County	3	Algebra I, Geometry		3	Life, Physics, and Earth/Space Science	25	yes	
Boyle County	4	Algebra I & II, Geometry or Integrated Math 1, 2,3 and one elective		3	Biology, Integrated. Science , and 1 elective	25	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Bracken County	3	Algebra I, Geometry, Math elective- pre Algebra or Algebra II		3	Earth/space Science, Biology or Advanced Biology, Introduction to Chemistry./Physics or Chemistry.	22	yes	
Breathitt County	4	Algebra I, Geometry Special Topics in Math, one elective : Business Math, Accounting, Medical Math, Algebra II	1 math per year	4	ICP/Biology, Chemistry. I, Special Topics in Science, one elective: Principles of Technology, Advanced Biology, Animal Science, Chemistry. I, Physics, Anatomy/Physiology	32	yes Pre-college curriculum + 4 AP + 3 AP Exams	Pre-College Diploma: 4 math-Algebra I , Geometry, Algebra II, one elective: Advanced. Math, Pre-Calculus., Calculus (AP Calculus) 4 Science - Biology, Chemistry., Special Topics in Science, one elective: Chemistry. II, Physics, Anatomy/Physiology, Principles of Technology (AP Biology) Advanced Biology
Breckinridge County	3	Algebra I, Geometry and Elective/ Integrated Math I, II, III		3	Integrated. Science, Biology I, Earth Science/ Physical Science, Biology I, Chemistry I	25	Yes: Regular graduation requirements + 4 AP, one Science or Math	Honors Diploma 4 Math-Algebra I, Geometry, Algebra II, Advanced Math, 3 Science - Physics. Science or Advanced Science, Biology, Chemistry Vocational Diploma : 3 Math, 3 Science
Bullitt County	4	Integrated. Math, Algebra I, Geometry, Algebra II or Integrated Math II		3	Integrated Science, Biology, Chemistry. or Introduction to Chemistry./Physics	28	yes	Pre-College - Standard diploma including Algebra II and either Chemistry. or Physics Extended Diploma 32 Credits: Pre-college and Political Science. Gifted Diploma : extended diploma-completing 8 AP credits.
Burgin Independent	3.5	Algebra I, Algebra II, Geometry, Math Elective 1/2 credit	Algebra I (8,9th) Algebra II (9,10th) Geo (9-11th) Math Elective (11,12th)	3	Earth/space Science (9th), Biology (9th), ICP, Anatomy & Physiology, Chemistry. I, Chemistry. II, or Physics (10-12)	28	no	
Butler County	4	Pre Algebra , Algebra Applied Math I, Geometry or Algebra II or Applied Math II		3	Introduction to Chemistry./Physics, Biology, Chemistry or Physics or Integrated. Science, Biology I and a 3rd Science credit	25	no	Comprehensive Diploma - 27 Credits,4 Math - Algebra I, Geometry, Algebra II, and Pre-Calculus or Advanced Topics in Math 3 Science -Introduction to Chemistry & Physics, Biology I Chemistry I or Physics I
Caldwell Co	3			3		25	yes	Honors Diploma 29 Credits 4 Math, 4 Science., Scholastic Diploma 27 Credits - 4 Math, 4 Science.

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Calloway County	3	Algebra I or Integrated Math I or Applied Math I, Geometry or Honors Geometry or Integrated. Math II or Applied Math II, Algebra II or Accelerated Algebra II or Integrated Math III or Technical Applied Math or Applied Math III		3	Integrated. Science I or Chemistry and Earth, Or Applied Introduction to Chemistry and Earth, Integrated Science II: Physics & Space or Applied Introduction to Physics and Space, Biology or Honors Biology or Applied Biology	28	yes	Standard Diploma 28 credits Enrichment Diploma 20 credits Comprehensive Dip. 31 credits
Campbell Co	3	Algebra Geometry, math elective		3	Biology, ICP	22	yes	
Campbellsville Independent	3	Algebra I or Integrated Math I, Algebra II or Integrated. Math II, Integrated. Math III or Geometry		3	Integrated. Science, Biology, Chemistry. I,	28	yes	Distinguished Diploma 31 credits - 5 Math - Algebra I, Algebra II, Geometry, Advanced. Math Topics, College Algebra , 5 Science -Biology, Chemistry. I, Chemistry. II, Physics or Anatomy, Integrated. Science.
Carlisle County	3	Algebra I, , Geometry Algebra II,		3	Biology I, Earth/Space & Physics, Chemistry.	28	no	
Carroll County	4	Integrated. Math I, II, III or Applied Integrated. Math I, II, III	9th grade- Biology or Honors Biology & Integrated. Math (I or Applied Integrated Math I, 10th grade- Integrated. Science & Integrated Math II or Applied Integrated Math II, 11th grade- Science elective, & Integrated. Math III or Applied Integrated Math III, 12th grade- Math Elective, Science Elective	4	Biology I and Integrated Math	28	yes	
Carter County	4	Algebra I, Geometry, Algebra II, Integrated. Math, Math for Business, Pre-Calculus, AP Calculus I, Discrete Math, Trigonometry, Advanced Math Topic, Practical Statistics,		4	Introduction to Chemistry./Physics, Biology, Earth Science, Scientific Methodology, Physics, Principles of Technology I, II, Anatomy and Physiology, Zoology, Microbiology, Medical Terminology, Chemistry	22	yes	
Casey County	3	Pre- Algebra , Applied Algebra , Applied Geometry		4	Biology, Integrated Science., Integrated Science Lab Skills, Elective	29	yes	Pre-college - 4-Math, Algebra I, Data & Measurements, Geometry, Algebra II, 4- Science, Biology Introduction to Chemistry. & Physics Lab, Introduction to Chemistry. & Physics Lab Skills, Physics or Chemistry.

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Caverna Independent	3	Algebra I, Geometry, Pre-Algebra, Consumer Math, Algebra II, Applied. Math I - III		3	Biology, Chemistry., Integrated. Science., Applied Science I - III	27	yes	
Christian County	3	Algebra I, Geometry, Elective		3	Earth Science., Biology, Physical Science.	27	yes	
Clark County	4	Algebra I, II, Geometry, Math Elective		3	Biology, Chemistry. and Physical Science	28	yes	4 AP course, and 3 AP exams
Clay Co	3	Algebra I, Advanced. Algebra I, Geometry, Advanced Geometry, Algebra II, Advanced. Algebra II, Pre-Calculus, Applied Math I, II, Advanced. Topics		3	Integrated Science, Biology, Advanced Biology, Chemistry. I, II, III, Earth/Space Science., Science Survey, Physics	22	no	
Clinton County	4	Algebra I, Geometry, two electives		3	Biology I, Integrated. Science or Introduction to Chemistry./Physics	25	no	Comprehensive Diploma ; 27 credits - 4 Science - Integrated Science or Introduction to Chemistry./Physics, Physics or Chemistry 4 Math- same
Cloverport Independent						30	yes	
Corbin Independent	5	Pre Algebra, Algebra I, Geometry, Algebra II, Applied Math or Advanced topics or Pre-Calculus or Calculus.		3	Integrated. Science., Biology, Chemistry. or environmental Science., or Botany	27	no	
Covington Independent	4	Algebra I and Informal Geometry or Geometry Plus any combo of two additional math		3	Survey of Science., Biology, and Chemistry, Physics, Earth Science	27	yes	
Crittenden County	4	Algebra I, Geometry,		3	ICP, Biology I, Electives	26	no	Gold Seal Academic Diploma 28 credits- 4 Math, Algebra I, Geometry, Algebra II, Pre-Calculus, Technical Math and Advanced Topics 3 - Science, ICP, Biology, elective
Cumberland County	3	Algebra I, Geometry, Algebra II or Pre-Calculus		3	Integrated Science, Biology, Environmental Science, or Chemistry or Physics, Anatomy & Physiology	28	no	Comprehensive Diploma
Danville Independent	4	Algebra I, Data & Measurements, Geometry, Math Elective or Applied Algebra , Integrated Algebra Applied Geometry, Math Elective		3	Earth/Space, Biology I, Chemistry. I or Basic Chemistry., Science Elective.	29	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Daviess County	3	Algebra I, Geometry , Special Topics or Algebra II		3	Integrated Science, Biology, Earth and space Science.	26	yes	Pre- College Diploma 26 Credits: 4 Math : Algebra I, Geometry, Algebra II, Algebra III or above 4 Science : Integrated Science, Biology, Earth/ Space Science., Chemistry or Physics. Honors Diploma 26 Credits: 5 Math : Algebra I, Geometry, Accelerated Algebra II or Algebra II/Algebra III, Pre-Calculus, AP Statistics or Calculus 5 Science Integrated. Science or Accelerated Integrated Science, Biology, Earth/ Space Science or Science elective, Chemistry or Physics., AP Science
Dawson Springs Independent	3	Algebra I, Geometry and 1 elective		3		25	yes	Commonwealth Diploma requires 25 credits: Algebra I, Geometry, Algebra II, Biology, Chemistry. or Physics, AP Biology, The Basic Pre-College Diploma requires 22 credits 3 Math- Algebra I, Geometry, Algebra II 3 Science- Biology I, Chemistry. or Physics and one elective Comprehensive Diploma requires 22 credits - 4 Math Algebra I , Geometry., Algebra II, Pre-Calculus. 4 Science - Integrated Chemistry./Physics., Biology I, one elective above and Chemistry.
Dayton Independent	3	Algebra I, II Geometry OR Integrated Math I, II, III		3	Integrated Chemistry./Physics, Biology, one elective OR Biology, Chemistry., and one elective	22	no	Applied Academic Diploma 22 credits 3 Math, 3 Science Academic Diploma 22 credits 3 Math, 3 Science Honors Academic Diploma 22 credits 4 Math, 4 Science Commonwealth Diploma is honors diploma with AP courses instead of Regular courses.
Edmonson Co	4	Algebra I, Geometry, 2 electives		3	General Science I, II and one elective	22	no	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Elizabethtown Independent	3			3		22	yes	
Elliott Co	3			3		24	yes	College Preparatory Diploma 3 math, 3 Science - Vocational Diploma 3 math, 3 Science
Eminence Independent	Minimum High School graduation Requirements						yes	
Erlanger-Elsmere Independent	3	Algebra I, Geometry, Algebra II, or Integrated Math I, II, III		3	Biology, Physical Science, Earth or Integrated Science.	22	yes	
Estill County	4	Integrated Math I, II, III or Algebra I, II, and Geometry		3	Integrated Science and two Science Electives or ICP and two Science Electives	28	yes	
Fairview Independent	3	Algebra I, Geometry and elective		3	Integrated Science I, II, III	22	no	
Fayette County	3	Option One: Algebra Part 1,2 and Geometry; Option Two: Algebra I, II, Geometry; Option Three: Geometry/Advanced. Geometry, Algebra II/Advanced., Algebra II, Pre-Calculus or Advanced Topics; Option Four: Algebra II/Advanced., Algebra II, Pre-Calculus or Topics in Math, Calculus/AP, Calculus I or AP Statistics; Option Five: Pre-Calculus or Topics in Math, Calculus I or AP Calculus I, Advanced Pre-Calculus, AP Calculus II or AP Statistics, Probability and Statistics		3	Option One: Physical Science, Biology, Chemistry, Physics, Physical Science II; Option Two: Biology, Chemistry, Physics; Option Three: Gifted Biology, Gifted Biology/Chemistry, Integrated Biology/Chemistry I, Gifted Integrated Biology/Chemistry I, II, Gifted Physics, Physics or AP Physics, Spanish Immersion Biology, Physics, or Chemistry	22	yes	
Fleming County	4	Employment Preparatory Diploma requires Algebra I, Geometry and two math electives. Technical Preparatory Diploma exchanges one of the above electives for Applied Math. The College Preparatory Diploma requires Accelerated or Algebra I, II Geometry and one math elective.		4	Employment Preparatory Diploma requires Integrated Science, Biology, Earth/Space Science. Technical Preparatory Diploma requires Biology, Earth/Space Science and Principles of Technology. The College Preparatory Diploma requires Biology, Environmental Biology, Chemistry or Physics and a Science Elective.	29	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Floyd County	3	Algebra I, Geometry and one Math elective		3	Earth/Space Science, Biology, Physical Science	22	yes	
Fort Thomas Independent	3	Algebra I, Geometry, and one Math elective, or Pre-Algebra , Applied Algebra , and Applied Geometry. or Geometry, Algebra II, and Pre-Calculus or Algebra I, Geometry and Technical Applied Math or Medical Math		3	Introduction to Physics or Physics I and Biology I and Chemistry I Advanced or Chemistry in the Community or Integrated Science I, II, III, or Introduction to Chemistry and Physics and Biology I Advanced or Biology I and one elective or Integrated Science I, Integrated Science II and one elective	22	yes	
Frankfort Independent	4			4		26	yes	
Franklin County	3			3		27	no	Enrichment Diploma requires 3 math and 3 Science for a total of 26 credits while the Academic Diploma requires 4 math, 3 Science for a total of 28 credits.
Fulton County	4	Algebra I, II, Geometry, and one Advanced math elective		4	Earth/Space, Biology, Chemistry and one elective	27	yes	
Fulton Independent	3	Algebra I, Geometry and one Math elective		3	Earth/Space Science, Biology, Chemistry	22	no	
Gallatin County	4	Algebra I, Geometry, Pre-Algebra, Algebra II, Algebra III, Essential Math		4	Environmental Biology, Integrated Anatomy, Chemistry. I	29	no	
Garrard County	3	Algebra I, Geometry Or Basic Geometry, one math elective		3	Physics. Science, Life Science., Earth/Space Science.,	22	yes	Basic College Pre Diploma 22 credits - 3 Math, Algebra I, Geometry or basic Geometry, and Algebra II, 2 Science, Biology, Earth/space Science., Chemistry. or Physics , Advanced College Pre Diploma 22 credits, 4 math, Algebra I, Geometry, Algebra II, Pre- Calculus or Probability and Statistics or AP Calculus 4 Science, Biology, Earth/Space Science., Chemistry or Physics and one Advanced. Science

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Glasgow Independent	3	Algebra I, Geometry, elective		3	Integrated. Science I, II, III	22	no	
Grant County	4	Algebra IA & IB, Geo, one elective		3	Earth & Space Science, Biology, Physical Science or Chemistry, or Physics	26	yes	
Graves County	3	Algebra I, Geometry, one elective		3	Biology, Chemistry., one elective	26	no	
Grayson County	3	Basic Algebra and or Algebra I, Geometry or ICP Geometry, and two electives from Algebra II, Advanced Concepts, Trigonometry, Calculus, Technical Applied Math or Consumer Math	One per year	3	Biology or Integrated. Biology, Chemistry. or Integrated Chemistry, Applied Science or Integrated Applied Science.	27	yes	
Green County	3			3	Biology I, Applied Chemistry, or Applied Physics, or Integrated Chemistry, or Physics, Earth/Space Science.	24	yes	Standard Diploma, Comprehensive Diploma, Technical Diploma all require 3 Math/3 Science and 24 total credits
Greenup County	3	Algebra I, Geometry, one elective		3	Life Science, Physics. Science, Earth Science.	28	yes	
Hancock County						22		
Hardin County	4	Algebra I, Geometry, and electives		3	Life Science, Physical Science, Earth and space Science.	27	yes	
Harlan County	4	Integrated. Math I, II, III, or-Calculus		3	Life Science, Physical Science, Earth and space Science.	22	yes	
Harlan Independent	4			3		26	yes	Advanced Academic - 28 credits
Harrison County	3	Algebra I, Geometry, one elective		3	Integrated. Science I, II, III	28	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Harrodsburg Independent	4	Pre- Algebra , Algebra I, Geometry, Algebra II, Pre-Calculus, Calculus.,		3	Integrated Science., Applied Biology, Biology, Applied Physics, Advanced. Biology, AP Environmental Science, Chemistry.	24	no	Pre-college Diploma - 3-Math, Algebra I, Geometry, Algebra II, 3- Science, Biology Chemistry. and one elective Technical-Preparatory Diploma 3 math, same, 3 Science- Integrated Science, Applied Biology, Applied Physics Comprehensive Diploma 24 Credits 4 Math, Pre-Algebra , Algebra I, Geometry, Algebra II, Pre-Calculus. 4 Science - Biology, Chemistry., Physics, Advanced Biology or Applied Physics or AP Environmental Science.
Hart County	3	Algebra I, Geometry, one elective or Math I, Algebra I, Geometry		3	Biology, Chemistry., Physics or ICP Biology, Special Topics in Science., or Science I, II, III	24	yes	
Hazard Independent	3	Integrated Math I, I, III		3	Integrated Science, Biology I., Introduction to Chemistry & Physics,	22	yes	College Preparatory - 3 Math Algebra I, II, Geometry, 4 Science - Integrated Science., Biology I, ICP, Chemistry. or Biology I, Chemistry. or AP Chemistry., and 2 electives
Henderson Co	3	Algebra I or Algebra IA or Algebra IB, Geo, Algebra II or Special topics or any math above Algebra II		3	Integrated. Science 9, Biology, Earth/Space Science.	22	yes	Technical/Vocational 28 Credits - 3 Math, same, 3 or 4 Science (additional Physics) Pre-College Diploma 28 Credits - 3 Math, same, 4 Sciences
Henry County	3			3		27	yes	
Hickman County	3			3		23	no	
Hopkins Co	3	Algebra I, Geometry, Integrated Technical Geometry I, Integrated Technical Geometry II., Math Elective		3	Physical Science., Earth & Space Science., Life Science.	28	yes	Standard Curriculum requires 3 Math and 3 Science for a total of 28 credits, Pre College Curriculum 3 Math, 3 Science for a total of 28 credits and the Honors Curriculum with 4 Math and 4 Science for a total of 28 credits.
Jackson County	3	Algebra I, Geometry, Algebra II		3	ICP, Biology I, Chemistry. or Physics	26	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Jackson Independent								
Jefferson County	3	Algebra I, Geometry Algebra II		3	Biology, Chemistry. Physics	22	yes	
Jenkins Independent	3	Algebra I, Geometry, one elective		3	Integrated. Science., Biology, one elective	22	yes	
Jessamine County	4	Algebra I, Geometry, two electives		3	Pathway I : Biology, Earth/Space Science., Introduction to Physics & Chemistry, Pathway II (for college bound): Biology, Earth/Space Science, Chemistry., Physics	25	yes	
Johnson Co	4	Algebra I, Geometry Or Applied Geometry, Math elective		3	Earth/Space Science., Biology, Chemistry or Applied Chemistry.	24	no	
Kenton County	4	Algebra I., Geometry, electives		3	Life Science., Physical Science., Earth/Space Science.	28	yes	
Knott County	3	Algebra I, Geometry, Data & Analysis		3	Integrated. Science., Biology I or Anatomy	22	no	
Knox County	3	Algebra I, Geometry , Data & Measurement		3	Integrated. Science., Biology, Chemistry. or Environmental Science.	22	yes	
Kentucky School for the Blind	3			3		22	no	
Kentucky School for the Deaf	3	Algebra I, Geometry and Math elective		3	Life Science (Biology) Physical Science (Chemistry), Earth and Space Science	25	no	
LaRue County	3	Algebra I, Geometry Or Integrated. Math I & II plus another math		3	ICP, Earth/Space, Biology	25	yes	
Laurel County	3	Algebra I, Geometry, Math elective		3	Integrated. Science. I, II, III	28	yes	
Lawrence County	3	Algebra I, II, Geometry OR Integrated Math I, II, III		3	Integrated Chemistry/Physics, Biology, Earth/Space Science	27	no	Academic-Pre-College- 27 Credits: 3 Math Algebra I, II Geometry or Pre-Calculus. 3 Science.- Integrated Chemistry/Physics, Biology, Chemistry or Physics
Lee County	4	Algebra I, Geometry, Math Electives		4	Introduction to Chemistry./Physics, Biology, Chemistry., Physics	29	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Leslie County	4	Algebra I, Geometry, two electives		3	ICP, Biology I, Earth Science	22	no	
Letcher County	3	Algebra I, II, Geometry, Pre-Calculus		3	Chemistry., Physics, Physical Science., Biology, Anatomy, AP Biology, Integrated Science.	22	yes	
Lewis County	3	Algebra I, Accelerated Algebra I, Applied Math I-IV, Geometry, Accelerated Geometry, Algebra II, Accelerated Algebra II, Practical Statistics/Technology, Applied Math, Discreet Math, Pre- Calculus, Calculus		3	Integrated Science., Biology I, II, , Chemistry. I, Principles of Technology I , II, Physics, Engineering Design, Earth Science, Environmental Science., Applied Science I-III, Astronomy.	26	yes	
Lincoln County	4	Algebra I, Data and Measurements, Geometry, math elective or functional Integrated Math I, II, III, IV		3	Earth and Space Science., Biology, Science elective	29	yes	
Livingston County	4	Algebra I, II, Geometry, and one elective		3	Comparative Science I, II and one elective	26	no	Comprehensive Diploma - 28 Credits : 4 Math Algebra II, Geometry, Pre-Calculus, and one elective, 3 Science : same
Logan County	4	Algebra I, Geometry, Electives		3	Biology, Integrated Science., ICP	26	yes	Honors- 31 Credits ; 5 Math 4 Science.
Ludlow Independent	3	Integrated. Math, Geometry, elective		3	Earth Science., Biology, Physical Science.	23	yes	
Lyon County	3	Algebra I, Geometry, one elective		3	ICP, Biology, elective	29	yes	
Madison County	4	Basic Algebra, Algebra I, Geometry, math elective		3	Integrated Physical/Earth-Space Science., Integrated Chemistry./Earth-Space Science., Biology,	28	Yes	Pre-College Curriculum plus four AP courses
Magoffin County	3	Algebra I, Geometry, Math Elective		3	Integrated Science, Biology, Chemistry.	22	yes	
Marion County	4	Algebra I, Geometry Electives		4	Integrated Science, Biology, electives	28	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Marshall County	3	App Algebra I, App. Geometry, Data & Measurements or Functional		3	Physical Science., Biology, Community Chemistry or Functional	27	no	Enrichment Diploma: 28 Credits - 3 Math Applications. Algebra I, Geometry, Algebra II, 3 Science: Physical Science, Biology, General Chemistry or Applied Physics Comprehensive Diploma: 29 Credits - 3 Math : Accelerated (Algebra I, II, Geometry) 3 Science : Physical Science., Biology, Chemistry I or AP Physics and the Standard Diploma requires 27 credits.
Martin County	3	Algebra I, Geometry, Math Elective		3	Integrated Science. I, II, III	28	yes	
Mason Co	3	Algebra I, Geometry, Integrated Math I, II, or elective		3	Integrated Science/Earth Space Science., Biology/Earth Space Science., Integrated Chemistry. or Chemistry.	22	yes	
Mayfield Independent	3	Algebra I, Geometry, elective		3	Life Science, Physical Science, and Earth/space Science.	22	yes	
McCracken County	3	Algebra I, Geometry, elective		3	ICP, Earth/Space Science, Biology I	22	yes	
McCreary County	3	Algebra I, Data & Measurements, Geometry		3	Integrated Science I, Biology I, Chemistry I,	28	yes	
McLean County	3	Algebra I, Geometry, Basic Geometry, Algebra II, Preparatory Algebra		3	Biology, ICP, Earth/Space Science, Chemistry., Physics	28	yes	
Meade County	4	Accelerated Algebra I, II, Accelerated Geometry or Integrated Math I, II, III, Math Electives		3	Environmental Science, Introduction to Chemistry & Physics, Biology, Chemistry, AP Chemistry, Physics, Earth/Space Science.	26	yes	
Menifee County	3	Algebra I, Geometry, Elective		3	Earth/Space Science., Biology I, Chemistry or Physics	26	yes	
Mercer County	4	Algebra IA & B, Geometry, one elective		3	1 credit in Biology, .5 in Chemistry, .5 In Physics, .5 in Earth/space Science and .5 additional credit	26	no	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Metcalfe County	4	Algebra I, Algebra II, Geometry	Algebra I, - grade 9 or 10, Math Elective- grade. 9 or 10, Geometry - grade 10, 11, or 12, Biology - grade. 10, ICP- grade 9, 10, or 11, elective - grade. 10, 11,or 12	4	Biology, ICP, one elective	28	yes	32 credits required
Middlesboro Independent	3	Algebra I, Geometry, and one elective		3	Integrated Science, Introduction to Chemistry & Physics, Anatomy & Physiology I, II, Chemistry, Physics, AP Chemistry	28	yes	
Monroe County	4	Any math	one math & one Science class in 11th grade	4	any Science	26	yes	Honors Diploma: 4 Math- Pre-Algebra , I, II, III, , 4 Science - Integrated. Science, Biology I, Chemistry I, and one elective
Montgomery County	4	Introduction to Algebra , Algebra I., Geometry, and Algebra II or Applied Math		4	Life Science, Physical Science and Earth/Space Science	28	no	Comprehensive Program- 28 credits : 4 Math - Accelerated Algebra I, Accelerated Geometry, Accelerated Algebra II Or Honors Algebra II and one of the following electives: Pre-Calculus, Finite/Probability and Statistics, Algebra III, Advanced Topics in Math, AP Calculus. 4 Science - Accelerated Integrated Science, Accelerated Biology, Accelerated Chemistry or Physics, one Elective
Monticello Independent	3	Algebra I, Geometry, and one elective		3	Life Science, Physical Science, and Earth/Space Science	22	yes	
Morgan County	4			4		28	yes	
Muhlenberg County	3	Algebra I, Geometry, Algebra II		3	Applied Science, Biology, Introduction to Chemistry and Physics	26	yes	Muhlenberg So HS - 4 Math, 4 Science. 30 credits are required.
Murray Independent	Minimum High School graduation requirements					22	yes	Comprehensive Diploma requires 23 credits as does the Advanced Diploma.
Nelson County	4	Algebra I or Applied Algebra I, Basic Geometry, Applied Geometry or Formal Geometry, Algebra II or Applications of Algebra II		3	Introduction to Conceptual Physics or Introduction to Physics, Biology, Chemistry	32	yes	
Newport Independent	3	Algebra I (A & B), Algebra II, Geometry		3	Integrated Science, Biology, Chemistry, Principles of Technology	28	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Nicholas County	4	Algebra I, II , Geometry, Math Elective		3	Integrated. Science. I, II, III	29	yes	College Cluster-4 Math -same, 4 Science -Physical Science, Biology, Chemistry, or Physics, Science Elective
Ohio County	4	Algebra, Geometry, 2 electives		3	Introduction to Chemistry./Physics, Biology I, Environmental Science.	26	no	
Oldham County	Minimum High School graduation Requirements					22	no	
Owen County	4			4		28	yes	
Owensboro Independent	3 1/2			3 1/2		28	yes	Comprehensive Diploma- 28 credits : 4 Math - (CP, AP or Advanced. Levels) 1 Math or Science and 3 Science - (Honors, CP or AP)
Owsley County	4	Algebra I, II, Geometry, Pre-Calculus, Inst Math or Advanced. Math or AP Math		4	Biology, Integrated to Chemistry./Physics, Earth/Space Science.	25	yes	Pre-College - 4 Math- Algebra I, Geometry, 2 electives , 4 Science - same
Paducah Independent	3	Algebra I or II, Geometry and one Math elective for the Academic Diploma and the Technical Preparatory Academic Diploma; Algebra II, Geometry and Trigonometry for the Comprehensive Diploma		3	Biology, Chemistry and one elective for the Academic Diploma, the Technical Preparatory Academic Diploma, and the Comprehensive Diploma	22	no	
Paintsville Independent	3	Algebra I, Geometry, and one Math elective		3	Integrated Science, Biology, and one Science elective	22	yes	
Paris Independent	3	Algebra I, II, Geometry, Pre-Calculus, AP Calculus, Applied Math, Integrated Math		3	Chemistry I, Biology I, Introduction to Chemistry and Physics, Advanced Biology, AP Biology, Physics, Anatomy and Physiology	25	yes	
Pendleton County	3	Algebra I, II, and Geometry		3	Life Science, Physical Science, and Earth/Space Science	24	yes	Pre-College : 3 math, Algebra I, II, Geometry 3 Science, Life Science, Physical Science, Earth/Space Science.
Perry County	3	Algebra I, Geometry and one Math elective		3	Life Science, Physical Science and Earth/Space Science	22	yes	Four AP Classes
Pike County	4	Algebra I, II, Geometry and one Math elective		3	Biology I, Chemistry or Physics and one Science elective	28	yes	
Pikeville Independent	3	Algebra I, Geometry, and one Math elective		3	Biology, Earth/Space and Chemistry or Introduction To Chemistry or Physics	27	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Pineville Independent	3	Algebra I, Geometry, Pre- Algebra or Algebra II		3	Earth/Space Science, Biology, Chemistry	22	yes	
Powell County	3	Algebra A, B, C, Algebra I, II, Geometry required for Pre-College Technical Preparatory Curriculum. For the Honors Program Curriculum four Math credits are required.		3	Biology I or Advanced Biology, Special Topics in Science, Chemistry I or Nutritional Science, or Applied Chemistry required for the Pre-College Technical Preparatory Curriculum. For the Honors Program Curriculum four Science credits are required.	28	no	
Providence Independent						25	yes	
Pulaski County	4	Algebra I, II, Geometry, Pre-Calculus, Applied Math , Topics in Math, Calculus AP, Calculus BC		4	Integrated Science, Advanced Introduction to Chemistry and Physics, Biology I, II, Chemistry, Physics, Anatomy and Physiology, Environmental Science, AP Biology, Applied Chemistry and AP Chemistry, Forensic Science, Special Topics (Medical Microbiology)	28	yes	
Raceland Independent	3			2		22	yes	
Robertson County	3			3		28	yes	
Rockcastle County	4	Integrated. Math I, II, III, and Data/Measurement or Algebra I, II, Geometry and Data/ Measurement		3	Introduction to Physics/Space Science, Biology I, Introduction to Chemistry/Earth Science	28	yes	
Rowan County	4	Algebra I, Geometry and two Math Electives		3	Science Elective, Life Science, Physical Science, and Earth/Space Science	24	yes	
Russell County	4	Algebra I, Geometry and Math elective		3	Integrated Science I, II, III	25	no	
Russell Independent	3	Algebra I, Geometry and one Math elective		3	Introduction to Chemistry/Physics, Biology I, Chemistry I, Physics I	24	yes	
Russellville Independent	4	3 math plus 1 elective		3		26	yes	
Scott County	Minimum High School graduation requirements					22	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Shelby County	4	Algebra I, II, Geometry, Advanced Topics or Essentials of High School Math, Pre-Algebra , Algebra I, II, Geometry		3	Science I, Biology I, Chemistry I	27	yes	
Silver Grove Independent	3	Algebra I, Geometry and one Math elective		3	ICP, Biology, Integrated Science	26	no	
Simpson County	3	Algebra I, Geometry, and one Math elective. Comprehensive Diploma requires 30 credits, Merit Diploma requires 28, while the Standard requires 26.		3	Integrated Science I, II, III	26	yes	
Somerset Independent	3	Algebra I, II, and Geometry are required for the College Preparatory and the Academic Diplomas. For the standard diploma Pre-Algebra , Basic Algebra I and Informal Geometry are required.		3	Physical/Earth/Space, Biology or Accelerated Biology and Chemistry or Physics are required for the College Preparatory Diploma. All of the choices above except Accelerated Biology are required for the Academic Diploma. For the Standard Diploma you must take Physical/Earth/Space, Biology and either Chemistry or Physics	25	yes	4 AP courses and an AP exam must be taken in at least 3 or these 4 courses
Southwestern High School	4	Essential Math, Algebra I, II, Data and Measurement, Geometry, Honors Geometry, Honors Algebra II, Applied Math, Advanced Topics in Math, Pre-Calculus, AP Calculus, Probability and Statistics		3	Integrated Science, Introduction to Chemistry and Physics, Biology, Honors Biology, Chemistry, Applied Chemistry, Anatomy, AP Biology, AP Chemistry/Chemistry II, AP Environmental Science, Environmental Issues, Environmental Science I, II	28	yes	
Spencer County	4			4		30	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Taylor County	3	Applied Algebra or Algebra I, Geometry, Basic Geometry or Applied Geometry, Applied Topics, Algebra II, Pre-Calculus required for the Standard Diploma. Algebra I, II Geometry or Basic Geometry, Pre-Calculus required for the Comprehensive Diploma	Applied Topics in Math may only be taken if it is 3rd credit. Can not take Introduction To Physical and Earth Science if Integrated Science was taken. If Biology is taken in 9th grade, 1/2 credit of Earth and Space Science is required.	3	Integrated Science, Integrated. Physical and Earth Science, Biology, Chemistry or Applied Chemistry, Earth and Space Science, Physics or Concept Physics, Advanced Biology, Anatomy and Physiology, Chemistry II required for the Standard Diploma. Integrated Physical and Earth Science, Comparative Biology, Chemistry, Earth and Space Science (1/2 credit), Physics or Conceptual Physics, Advanced Biology, Anatomy and Physiology, Chemistry II are required for the Comprehensive Diploma.	22	yes	
Todd County	3	Algebra I, Geometry and one Math elective		3	Biology I or Honors, Earth/Space Science, Chemistry I, Physics or Principles of Technology I, II required for the Comprehensive Diploma. Biology I, Introduction to Chemistry and Physics, Earth/Space Science required for the Standard Diploma.	28	yes	Four AP Classes
Trigg County	3	Algebra I, II, and Geometry		3	Science Survey, Biology, and one Science elective	22	yes	
Trimble County	3	Algebra I, Geometry, Math Elective		3	Earth/Space Science, Biology I, Physical Science Elective	22	yes	
Union County	4	Algebra I, II, Pre-Algebra , Geometry		3	Integrated Science, Biology, Physics, (1/2 credit) Chemistry (1/2 credit)	28	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Walton-Verona Independent	4	Algebra I, Geometry, and 2 electives for the Applied Academic Diploma and Algebra I, II, Geometry and one math elective for the College Preparatory Diploma, Algebra I, II, Geometry, and Pre -Calculus for the Academic Diploma.	one math class per year	3	Integrated Science, and 2 Science Electives for the Applied Academic Diploma and Integrated Science, Biology and Chemistry/ Chemistry. For the College Preparatory Diploma, Integrated Science, Biology, Chemistry and I upper level Science course which is 4 credits for the Academic Diploma.	27	yes	
Warren County	5	Pre-Algebra/Algebra I , II, Geometry, Pre-Calculus, Calculus, Data and Measurement		4	Integrated Science with Earth/Space Applications, Biology I, Chemistry I with Earth Applications, Physical Science, Physics I with Space Applications	26	no	
Washington County	Minimum High School graduation requirements					22	yes	
Wayne County	4	Algebra I, Geometry, and 2 electives		3	ICP, Biology I or Chemistry I, one elective	22	yes	
Webster County	3	Algebra I, Geometry, Mathematics Elective (Pre- Calculus and AP, Computer Programming, Advanced Computer Programming, AP Computer Science)		3	Integrated Science, Biology, Science Elective (Earth and Space Science, Chemistry I, II, Physics, AgiScience)	27	yes	Four AP Classes and must take 3/4 AP tests
Whitley County	3	Algebra I, II, Pre-Algebra , Integrated Math I, II, III, Geometry, Pre-Calculus, AP Calculus, Applied Math, Functional Math I-IV	1/2 credit of Math must be taken during grade 12 in either AP Calculus, Pre-Calculus, Advanced Topics, or Applied Math	3	Integrated Chemistry and Physics, Earth Science, Biology, AP Biology, Chemistry I, II, AP Chemistry, Anatomy and Physiology, Physics, AP Physics	22	yes	Three AP exams, four AP classes (AP English, AP Foreign Language, AP Math, or Science) and an elective AP course
Williamsburg Independent	3			3		22	no	
Williamstown Independent	3	Algebra I, Geometry, Algebra II, Consumer Math, Pre-Calculus, Probability and Statistics		3	Physical Science, Chemistry I, Biology I, II, Anatomy and Physiology	22	yes	
Wolfe County	4	Integrated Math I, II, III, Algebra I, Geometry, Algebra II		4	Integrated Science I, II, III, Integrated Chemistry/Physics, Earth and Space Science, Biology, Chemistry	27	yes	

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Woodford County	4	Algebra I, Geometry, and two electives required from Informal Geometry, Consumer Math, Pre- Algebra , Basic Algebra , Algebra II, Advanced Geometry, Advanced Algebra II, Advanced Math Topics, Pre Calculus, Calculus, Differential Calculus, AP Calculus, Topics in Mathematics		3	Integrated Science I, II, Biology	26	yes	
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Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Source of Information
Letter of Assurance and Website
Letter of Assurance and Website
Letter of Assurance and Website
Letter of Assurance and Website
Letter of Assurance
Letter of Assurance
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance
Letter of Assurance
Letter of Assurance
Letter of Assurance and Website
Letter of Assurance
Letter of Assurance
Letter of Assurance
Letter of Assurance
Letter of Assurance and Website
Letter of Assurance
Letter of Assurance
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance
Letter of Assurance and Website
Letter of Assurance and Website
Letter of Assurance and Website
Letter of Assurance
Letter of Assurance
Phone Call

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance and website
Letter of Assurance
Letter of Assurance and website
Letter of Assurance and website
Letter of Assurance
Letter of Assurance
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance
Website
Letter of Assurance
Letter of Assurance
Letter of Assurance and website
Letter of Assurance
Letter of Assurance
Letter of Assurance and website
Letter of Assurance and website
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance and website
Letter of Assurance
Letter of Assurance
Letter of Assurance

## Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

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Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance
Letter of Assurance
Letter of Assurance and school website
Letter of Assurance and school website
Letter of Assurance
Letter of Assurance and school website
Letter of Assurance and school website
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance and school website
Letter of Assurance
Letter of Assurance and school website
Letter of Assurance and school website
Letter of Assurance and school website
Letter of Assurance
Letter of Assurance and school website
Letter of Assurance and school website
Letter of Assurance
Letter of Assurance
Letter of Assurance and School website

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance and School website
Letter or Assurance and School website
Phone
Letter of Assurance
Letter of Assurance and school website
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance
Letter of Assurance
Letter of Assurance
Phone Call
Letter of Assurance
Letter of Assurance and school website
Letter of Assurance
Letter of Assurance and school website
Letter of Assurance and school website

## Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

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Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance and School website
Letter of Assurance
Letter of Assurance
Letter of Assurance
Letter of Assurance
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance and School website
Letter of Assurance
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance
Letter of Assurance
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance
Letter of Assurance
School Website
School Website
Letter of Assurance
Phone
Letter of Insurance
Letter of Assurance
Letter of Assurance
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance
Letter of Assurance

## Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

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Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance
Letter of Assurance
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance
Letter of Assurance and Phone call

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance
Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance and School website
Letter of Assurance and School website
Letter of Assurance
Letter of Assurance
Letter of Assurance
Letter of Assurance
Phone Call
Letter of Assurance and School website
Letter of Assurance

Appendix C: Kentucky High School Graduation Requirements for Math and Science by District

Letter of Assurance